

Title (en)  
NOZZLE APPARATUS FOR DIRECT ENERGY DEPOSITION

Title (de)  
DÜSENVORRICHTUNG ZUR DIRECT ENERGY DEPOSITION

Title (fr)  
APPAREIL A BUSE POUR LE DEPOT SOUS ENERGIE CONCENTREE

Publication  
**EP 3330007 B1 20200422 (EN)**

Application  
**EP 16201499 A 20161130**

Priority  
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Abstract (en)  
[origin: EP3330007A1] A nozzle apparatus (10) for direct energy deposition applications, the nozzle apparatus (10) comprising: a continuous deposit material passage (17) for conveying deposit material, the continuous deposit material passage (17) comprising an interface nozzle channel (42) and a nozzle channel (110) wherein the nozzle channel (110) is contiguous with the interface nozzle channel (42); and a continuous shielding gas passage (19) for conveying shielding gas, the continuous shielding gas passage (19) comprising a shielding gas channel (58) and an annular shielding gas passage (20) wherein the annular shielding gas passage (20) communicates with the shielding gas channel (58) and wherein the annular shielding gas passage (20) surrounds the continuous deposit material passage (17).

IPC 8 full level  
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Cited by  
CN113319294A; EP4378618A1; WO2021179536A1; WO2021123921A1

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